



QUALITY AND TECHNICAL FEATURES



INTRODUCTION

A revolutionary structural external-flush glass partition wall in 85 mm thickness. A snap-fit fastening, between glass and aluminum profile, without the use of glues result of years of research. An innovation that overcomes the limitations of traditional technical a dhesive materials allowing a reliable fixing stable over time and independent of the environmental operating conditions. A compensator/leveler designed to absorb structural adjustments or attenuate the seismic stress.

EXTERNAL-FLUSH GLASS

External-flush glass slabs, without visual glass-stopper profiles.
Snap-fit connections that don't need glues, providing an everlasting stability.



VERTICAL CONNECTOR

A vertical structural gasket that aligns and joins the slabs without the use of glues. A concealed coextruded component that fits into the glass. They provide the sealing and the perfect flush alignment of the slabs. An additional innovative element is the vertical junction, the protagonist of the aesthetic continuity that inspires the entire project.



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LEVELLER

TTT

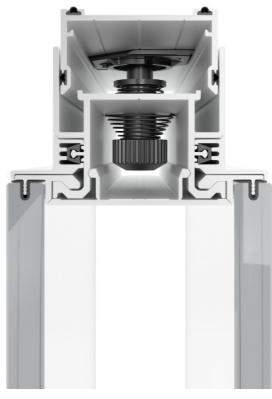
A device designed to guarantee structural strength and micrometric adjustment during installation, to make easy and precise all leveling operations.



COMPENSATOR

Leveller and compensator together. It allows further adjustments to the top profiles and it cushions both the structural settling of the building and the strains during seismic events.







BOTTOM GASKETS

 \mathbf{V}

An interposition element between the glass panels and the horizontal bottom profiles. A splitter of loads and a sliding guide of the glass slab translation during installation.



STRUCTURAL GASKET

A coextruded gasket that fits into a special milling made in the glass. A locking that provides the perfect mechanical tightness avoiding the use of glues. An effective guarantee of an everlasting connection







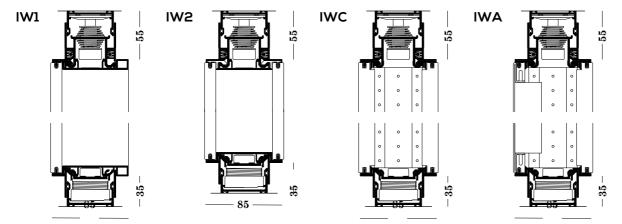
TECHNICAL FEATURES

INWALL is a movable internal partition wall only with a separation function composed by structural profiles in extruded aluminum and infill panels in glass, wood or metal. It is 85 millimetres thick and it is characterized by the revolutionary **external-flush structural glass** with a **snap-fit fastening without the use of glues or double-sided tape** and by the compensator/leveler designed to absorb structural adjustments or attenuate the seismic stress. The "INWALL glass" due to a patent snap-fit fastening and not using glues, ensures a mechanical seal between glasses and aluminum profiles that is safe and stable over time.

PLUS

- 01. **85 mm** thickness
- 02. Tightness without glues
- 03. Connections of the locking components
- 04. External-flush glass, 12/13 mm
- 05. Two solutions of glazed partition wall
- 06. Two solutions of solid partition wall
- 07. Micrometric adjustment of the bottom track
- 08. Spring leveller/compensator into the top track
- 09. High noise reduction
- 10. High sound absorption
- 11. Resistance to seismic stress

The partition wall is available in four versions: single-glazed with asymmetric glass, double-glazed, solid and acoustic.



The profiles on the floor and ceiling are made 6060 UNI 9006/1 aluminium alloy extrusions and they allow the perfect horizontal leveling, \pm mm 17,5. The adjustments at the base, \pm mm 10, are guaranteed by leveling feet composed of three elements made of solid plastic material. The uppers are carried out by acting on the **spring compensator/leveler** that allows a standard **adjustment** about \pm mm 7.5 and a **dynamic compensation** about mm \pm 9. The telescopic wall start-profiles allow to absorb out of plumbs up to mm 15.

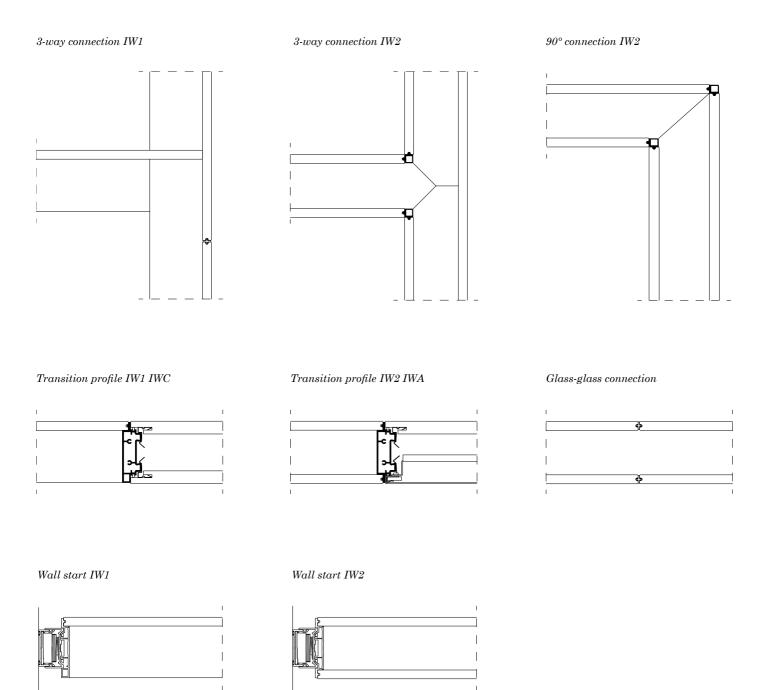
The glazed modules are made by safety laminated sheets with the standard thickness of mm 6+0,38+6, or for a high noise reduction with pvb of interposition. The interlocking of the glass with the lower and upper profiles are made by **patented gaskets** that fit into a special milling made in the upper and lower edges of the glass-sheets. The upper ones are coextruded and they have a stabilizing function, the lower ones in single extrusion serve as support and as a sliding guide for the alignment of the glass-sheets. The **vertical connections** are made, **without using glues**, by coextruded hidden gaskets imbed into a special milling made in the edges of the glass. This solution improves the sound insulation performance and facilitates the assembly and disassembly operations of the partition wall..

The wooden solid modules are made of chipboard panels coated on both faces with melamine-paper and perimetrically finished with edges in 10/10 mm thick ABS. The acoustic modules have on one side a perforated metal panels, epoxy powder coated, equipped with TNT sealing and interior mattress made of absorbent material, to ensure sound absorbing performance.



JOINTS AND CONNECTIONS

The corner connections, two-way and three-way types, are fixed and made by interposing between the glass-sheets the interlocking polycarbonate profiles.



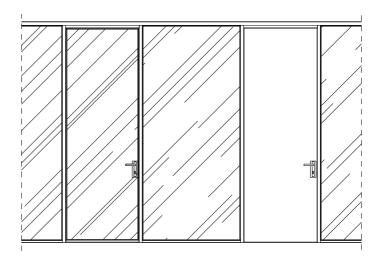


SWING DOORS

The swing doors have the same thickness of the partition wall with **external-flush glass**, single or double, or with hollow-core wood. All types are provided with single and double leaf.

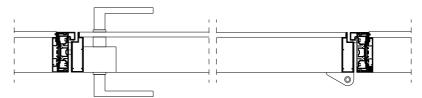
PLUS

- 01. Door leaf with same partition wall thickness, 85mm
- 02. Structural profiles with reduced size
- 03. Swing door with single asymmetric glass
- 04. Double-leaf flush glass door
- 05. Solid door with aluminium frame
- 06. Integrated door-closer
- 07. Acoustic drop-seal
- 08. Handles with exclusive design
- 09. High soudproof
- 10. Adjustable pivot hingee

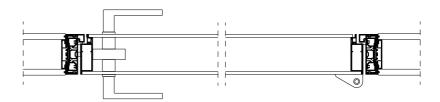


The jambs are made of extruded aluminum profiles, the rebate gaskets are made of grey pvc. The hinged doors made of safety glass are framed with perimetrical aluminium profiles designed to accommodate, in the upper crosspiece, an integrated door-closer and, in the lower one, an acoustic drop-seal. There are adjustable pivot hinges 180° opening with external regulation. The wooden leafs are hollow core and perimetrally edged with an aluminium profile. The leaf is provided with an integrated door-closer and an acoustic drop-seal.

Framed pivot door with single asymmetric glass



Framed pivot door with double glass



Framed solid wing door





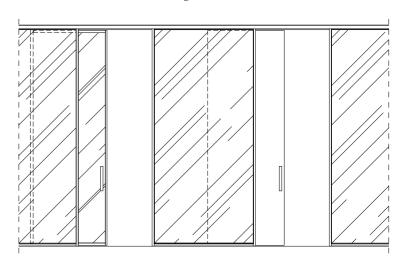
SLIDING DOORS

The sliding doors may have single centered or double glazed leafs in security glass, or in hollow-core wood. The perfect internal sliding is guaranteed by a soft closing and opening system. The space between the leaf and the frame is sealed by brushes made of a soft grey plastic material. Best soundproofing performance are guaranteed by acoustic drop-seals placed inside the lower crosspieces.

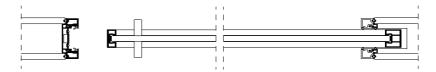
All leafs, the swing type or the sliding ones, are provided with aluminium handles in anodized finish, in polished finish or, upon the specific requests of Customers, in painted finish with the exclusive Vetroin design.

PLUS

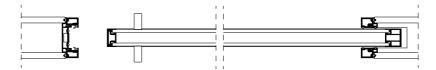
- 01. Inner sliding door-leaf
- 02. Structural profiles with reduced size
- 03. Single-glass door leaf
- 04. **Double-glass** $door\ leaf$
- 05. Solid door-leaf
- 06. Soft closing and opening system
- 07. Gaskets with sealing brush
- 08. Acoustic drop-seal
- 09. Handles with exclusive design



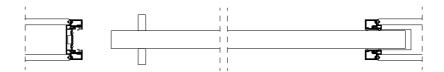
Framed single-glass sliding door



Framed double-glass sliding door



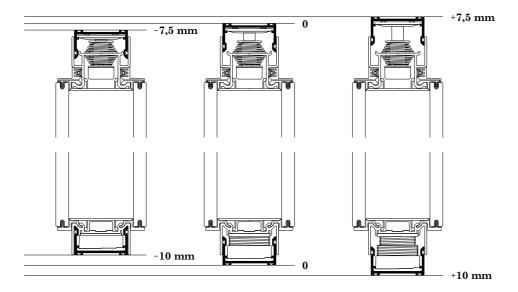
Solid sliding door





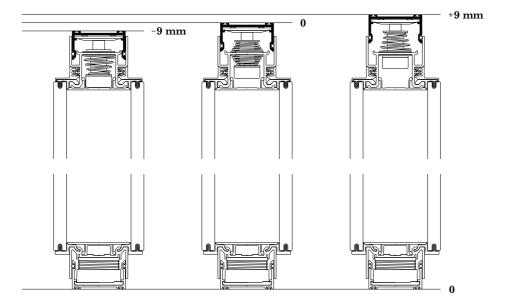
ADJUSTMENTS

The partition wall is designed to simplify the installation on site using optimal solutions to easily adjust the frequent non-levelled floors. The levelling operations are feasible by using the adjustable feet, which also have a structural function and are designed to allow a stroke of \pm 10 mm.



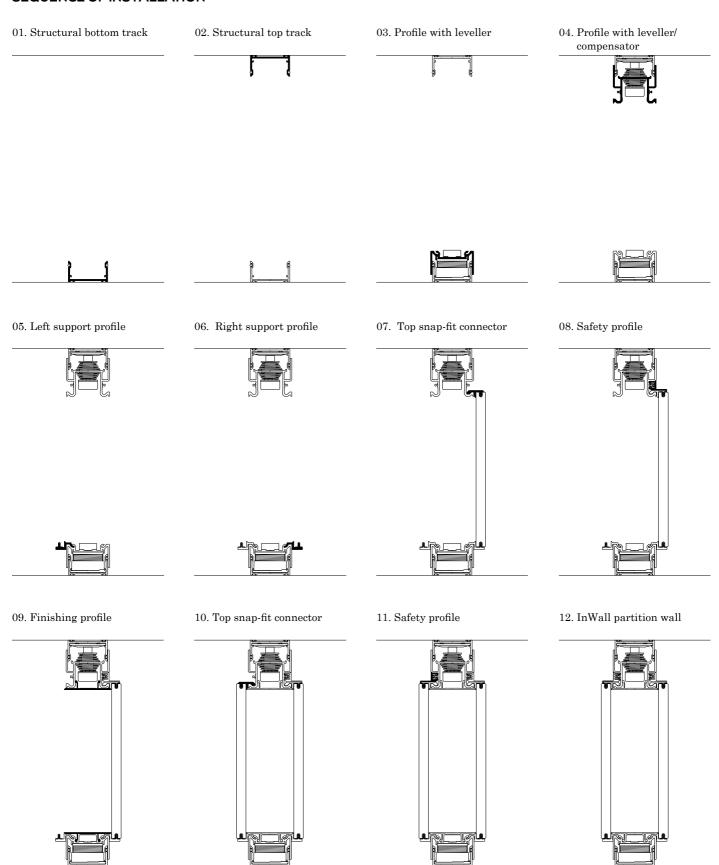
DYNAMIC ADJUSTMENT

The partition wall is designed to absorb the settling deformation of the building structures on the interior partitions or those ones due to the seismic action. The spring device, placed inside the top structural profile, allows both the leveling adjustment of \pm 7.5 mm and the dynamic adjustment of \pm 9 mm.





SEQUENCE OF INSTALLATION

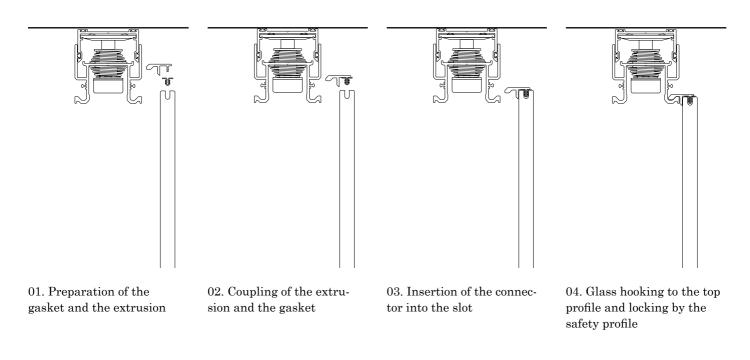


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FIXING OF THE TOP CONNECTOR

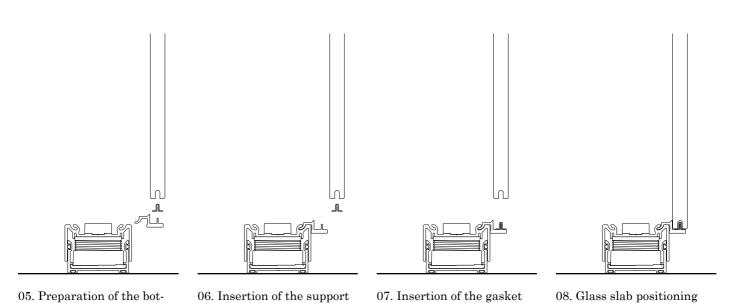
The fixing of the horizontal structural profiles is carried out without any glue and is performed directly on site. The patented connector and the extrusion that forms the top hook are inserted by pressing into the appropriate slot created in the glass slab thickness. The expanding effect that is produced during the insertion secures together the connector and the glass creating a single piece.



FIXING OF THE BOTTOM SUPPORT

tom gasket

A simple and linear sequence, dictated by the experience and by the need to guarantee a proper installation in any condition.



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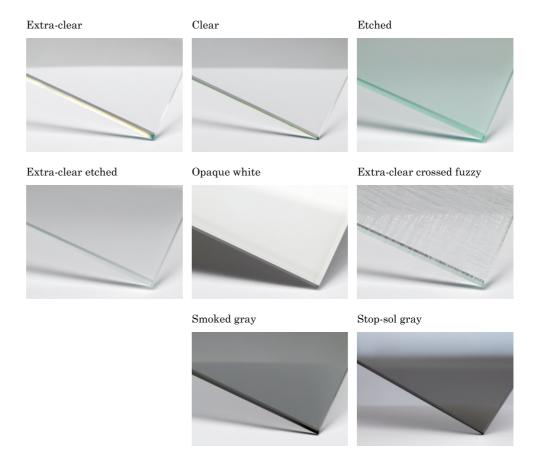
onto the support profile

profile into the slot

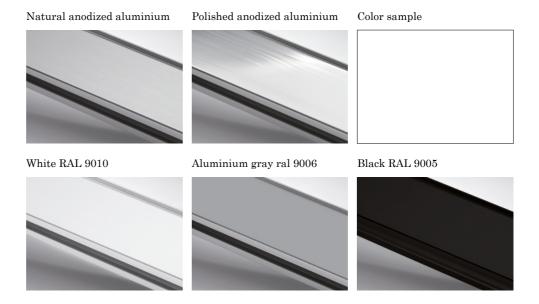


FINISHES

GLASS



ALUMINIUM





WOOD VIA - Bianco K101PE V1B - Magnolia U109BS



V2A - Alluminio penelope FA08 **V2B** - Wengè poro rovere LD58 **V2C** - Acero chiaro D1251VL



V3A - Rovere provenza tranchè



 $\textbf{V3B} - Oregon \ pine \ matrix \ LK10 \quad \textbf{V3C} - Stratos \ matrix \ LM32$

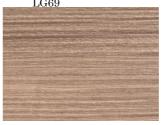




V3D - Vintage matrix LM63



V3E - Ciliegio marbella matrix LG69



 ${f V3F}$ - Delavè penelope FA41



 ${\it V3G}$ - Bianco matrix B013



V3H - Kaki penelope FA44

